

What the invention claimed is:

1. A ventilation mattress comprising
an outer bag, said outer bag comprising a top fabric
sheet layer, a bottom fabric sheet layer peripherally sealed to
5 said top fabric sheet layer, at least one air inlet respectively
extended out of said top fabric sheet layer and said bottom
fabric sheet layer, and a plurality of air vents formed in said top
fabric sheet layer in communication with said at least one air
inlet;
10 at least one flexible tube respectively connected to said
at least one air inlet of said outer bag;
at least one electric fan respectively installed in said at
least one flexible tube and adapted to draw currents of air into
the inside of said outer bag;
15 a fabric stuffing member stuffed in said outer bag
between said top fabric sheet layer and said bottom fabric sheet
layer, said fabric stuffing member being formed of interwoven
spandex fibers and having open spaces for circulation of air
through said at least one air inlet and the air vents of said outer
20 bag; and
a flexible pad provided at a bottom side of said fabric
stuffing member inside said outer bag, said flexible pad

comprising a top cover layer, a bottom cover layer, a plurality of
springy support members connected between said top cover
layer and said bottom cover layer, an air passage defined in
between said top cover layer and said bottom cover layer around
5 said springy support members, and a plurality of air vents in
said top cover layer in communication between said air passage
and the air vents in the top fabric sheet layer of said outer bag

2. The ventilation mattress as claimed in claim 1, further
comprising a plurality of membrane type pressure switch
10 adapted to turn on said at least one electric fan when received a
pressure and to turn off said at least one electric fan when
receives no pressure.

3. The ventilation mattress as claimed in claim 2, further
comprising a time delay switch adapted to delay the acting of
15 the off action of said membrane type pressure switch for a
predetermined length of time when said membrane type pressure
switch receives no pressure.

4. The ventilation mattress as claimed in claim 1,
wherein said at least one electric fan each is a cooling fan.

20 5. The ventilation mattress as claimed in claim 1,
wherein said at least one electric fan each is respectively
incorporated with electric heater means to provide hot air.

6. The ventilation mattress as claimed in claim 1, further comprising a semiconductor cooler chip mounted in said air inlet.

7. The ventilation mattress as claimed in claim 1,
5 wherein said at least one electric fan each has an air input port, a grille mounted in said air input port, and an air filter mounted in said grille.

8. A ventilation mattress comprising:

an outer bag, said outer bag comprising a top fabric
10 sheet layer, a bottom fabric sheet layer peripherally sealed to said top fabric sheet layer, at least one air inlet respectively extended out of said top fabric sheet layer and said bottom fabric sheet layer, and a plurality of air vents formed in said top fabric sheet layer in communication with said at least one air
15 inlet;

at least one electric fan respectively connected to said at least one air inlet of said outer bag and adapted to induce currents of air into the inside of said outer bag; and

a fabric stuffing member stuffed in said outer bag
20 between said top fabric sheet layer and said bottom fabric sheet layer, said fabric stuffing member being formed of interwoven spandex fibers and having open spaces for circulation of air

through said at least one air inlet and said air vents.

9. The ventilation mattress as claimed in claim 8, further comprising a plurality of membrane type pressure switch adapted to turn on said at least one electric fan when received a pressure and to turn off said at least one electric fan when
5 receives no pressure.

10. The ventilation mattress as claimed in claim 8, wherein said at least one electric fan each has an air input port, a grille mounted in said air input port, and an air filter mounted
10 in said grille.

11. A ventilation mattress comprising:

an outer bag, said outer bag comprising a top fabric sheet layer, a bottom fabric sheet layer peripherally sealed to said top fabric sheet layer, at least one air inlet respectively
15 extended out of said top fabric sheet layer and said bottom fabric sheet layer, and a plurality of air vents formed in said top fabric sheet layer in communication with said at least one air inlet;

at least one electric fan respectively connected to said at
20 least one air inlet of said outer bag and adapted to induce currents of air into the inside of said outer bag; and

a flexible pad stuffed in said outer bag, said flexible pad

comprising a top cover layer, a bottom cover layer, a plurality of springy support members connected between said top cover layer and said bottom cover layer, an air passage defined in between said top cover layer and said bottom cover layer around
5 said springy support members, and a plurality of air vents in said top cover layer in communication between said air passage and the air vents in the top fabric sheet layer of said outer bag.

12. The ventilation mattress as claimed in claim 11, further comprising a plurality of membrane type pressure switch
10 adapted to turn on said at least one electric fan when received a pressure and to turn off said at least one electric fan when receives no pressure.

13. The ventilation mattress as claimed in claim 11, wherein said at least one electric fan each has an air input port,
15 a grille mounted in said air input port, and an air filter mounted in said grille.

14. A ventilation mattress comprising:
a seat covering formed of a bag and integral with a chair, said bag comprising a top fabric sheet layer, a bottom fabric
20 sheet layer peripherally sealed to said top fabric sheet layer, at least one air inlet respectively extended out of said top fabric sheet layer and said bottom fabric sheet layer, and a plurality of

air vents formed in said top fabric sheet layer in communication with said at least one air inlet;

at least one electric fan respectively connected to said at least one air inlet of said bag of said seat covering and adapted
5 to induce currents of air into the inside of said bag of said seat covering; and

a fabric stuffing member stuffed in said bag of said seat covering between said top fabric sheet layer and said bottom fabric sheet layer, said fabric stuffing member being formed of
10 interwoven spandex fibers and having open spaces for circulation of air through said at least one air inlet and said air vents.

15. The ventilation mattress as claimed in claim 14 further comprising a flexible pad provided at a bottom side of
15 said fabric stuffing member inside said outer bag, said flexible pad comprising a top cover layer, a bottom cover layer, a plurality of springy support members connected between said top cover layer and said bottom cover layer, an air passage defined in between said top cover layer and said bottom cover
20 layer around said springy support members, and a plurality of air vents in said top cover layer in communication between said air passage and the air vents in the top fabric sheet layer of said

outer bag.

16. The ventilation mattress as claimed in claim 14,
wherein said at least one electric fan each has an air input port,
a grille mounted in said air input port, and an air filter mounted
5 in said grille.

17. The ventilation mattress as claimed in claim 14,
further comprising a plurality of membrane type pressure switch
adapted to turn on said at least one electric fan when received a
pressure and to turn off said at least one electric fan when
10 receives no pressure.

18. The ventilation mattress as claimed in claim 17,
further comprising a time delay switch adapted to delay the
acting of the off action of said membrane type pressure switch
for a predetermined length of time when said membrane type
15 pressure switch receives no pressure.

19. A ventilation mattress comprising:
an outer bag, said outer bag comprising a top fabric
sheet layer, a bottom fabric sheet layer peripherally sealed to
said top fabric sheet layer, an air inlet, an air outlet, and a
20 plurality of air vents formed in said top fabric sheet layer in
communication with air inlet;

an electric fan installed in said air inlet and adapted to

draw currents of air into the inside of said outer bag;

a fabric stuffing member stuffed in said outer bag between said top fabric sheet layer and said bottom fabric sheet layer, said fabric stuffing member being formed of interwoven
5 spandex fibers and having open spaces for circulation of air through said air inlet and the air vents of said outer bag;

a flexible pad provided at a bottom side of said fabric stuffing member inside said outer bag, said flexible pad comprising a top cover layer, a bottom cover layer, a plurality of
10 springy support members connected between said top cover layer and said bottom cover layer, an air passage defined in between said top cover layer and said bottom cover layer around said springy support members, and a plurality of air vents in said top cover layer in communication between said air passage
15 and the air vents in the top fabric sheet layer of said outer bag;

a meshed frame device mounted inside said outer bag at one side, said meshed frame device defining an air circulation chamber adapted to guide air from said air inlet and the inside space of said fabric stuffing member toward the inside space of
20 said flexible pad and said air outlet; and

a semiconductor cooler chip, said semiconductor cooler chip having a cold side disposed in said air inlet and a hot side

disposed in said air outlet.

20. The ventilation mattress as claimed in claim 19, further comprising an induced-draft fan installed in said air outlet and adapted to draw hot air out of said outer bag.

5 21. A ventilation mattress comprising:

an outer bag, said outer bag comprising a top fabric sheet layer, a bottom fabric sheet layer peripherally sealed to said top fabric sheet layer, an air inlet, an air outlet, and a plurality of air vents formed in said top fabric sheet layer in
10 communication with said air inlet;

an electric fan installed in said air inlet and adapted to draw currents of air into the inside of said outer bag;

a fabric stuffing member stuffed in said outer bag between said top fabric sheet layer and said bottom fabric sheet
15 layer, said fabric stuffing member being formed of interwoven spandex fibers and having open spaces for circulation of air through said air inlet and the air vents of said outer bag;

a flexible pad provided at a bottom side of said fabric stuffing member inside said outer bag, said flexible pad
20 comprising a top cover layer, a bottom cover layer, a plurality of springy support members connected between said top cover layer and said bottom cover layer, an air passage defined in

between said top cover layer and said bottom cover layer around said springy support members, and a plurality of air vents in said top cover layer in communication between said air passage and the air vents in the top fabric sheet layer of said outer bag;

5 and

a semiconductor cooler chip, said semiconductor cooler chip having a cold side disposed in said air outlet and a hot side disposed in said air inlet.

22. A ventilation mattress comprising:

10 an outer bag, said outer bag comprising a top fabric sheet layer, a bottom fabric sheet layer peripherally sealed to said top fabric sheet layer, an air inlet, an air outlet, and a plurality of air vents formed in said top fabric sheet layer in communication with said air inlet;

15 an electric fan installed in said air inlet and adapted to draw currents of air into the inside of said outer bag;

a fabric stuffing member stuffed in said outer bag between said top fabric sheet layer and said bottom fabric sheet layer, said fabric stuffing member being formed of interwoven
20 spandex fibers and having open spaces for circulation of air through said air inlet and the air vents of said outer bag; and

a semiconductor cooler chip, said semiconductor cooler

chip having a cold side disposed in said air inlet and a hot side disposed in said air outlet.

23. A ventilation mattress comprising:

an outer bag, said outer bag comprising a top fabric
5 sheet layer, a bottom fabric sheet layer peripherally sealed to said top fabric sheet layer, an air inlet, an air outlet, and a plurality of air vents formed in said top fabric sheet layer in communication with said air inlet;

an electric fan installed in said air inlet and adapted to
10 draw currents of air into the inside of said outer bag;

a fabric stuffing member stuffed in said outer bag between said top fabric sheet layer and said bottom fabric sheet layer, said fabric stuffing member being formed of interwoven spandex fibers and having open spaces for circulation of air
15 through said air inlet and the air vents of said outer bag; and

a semiconductor cooler chip, said semiconductor cooler chip having a cold side disposed in said air outlet and a hot side disposed in said air inlet.

24. A ventilation mattress comprising:

20 an outer bag, said outer bag comprising a top fabric sheet layer, a bottom fabric sheet layer peripherally sealed to said top fabric sheet layer, an air inlet, an air outlet, and a

plurality of air vents formed in said top fabric sheet layer in communication with said air inlet;

an electric fan installed in said air inlet and adapted to draw currents of air into the inside of said outer bag;

5 a flexible pad stuffed inside said outer bag, said flexible pad comprising a top cover layer, a bottom cover layer, a plurality of springy support members connected between said top cover layer and said bottom cover layer, an air passage defined in between said top cover layer and said bottom cover
10 layer around said springy support members, and a plurality of air vents in said top cover layer in communication between said air passage and the air vents in the top fabric sheet layer of said outer bag; and

a semiconductor cooler chip, said semiconductor cooler
15 chip having a cold side disposed in said air inlet and a hot side disposed in said air outlet.

25. A ventilation mattress comprising:

an outer bag, said outer bag comprising a top fabric sheet layer, a bottom fabric sheet layer peripherally sealed to
20 said top fabric sheet layer, an air inlet, an air outlet, and a plurality of air vents formed in said top fabric sheet layer in communication with said air inlet;

an electric fan installed in said air inlet and adapted to draw currents of air into the inside of said outer bag;

a flexible pad stuffed inside said outer bag, said flexible pad comprising a top cover layer, a bottom cover layer, a plurality of springy support members connected between said top cover layer and said bottom cover layer, an air passage defined in between said top cover layer and said bottom cover layer around said springy support members, and a plurality of air vents in said top cover layer in communication between said air passage and the air vents in the top fabric sheet layer of said outer bag; and

a semiconductor cooler chip, said semiconductor cooler chip having a cold side disposed in said air outlet and a hot side disposed in said air inlet.

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